

# Active Recombinant Human ITGAV & ITGB3 Protein, His-Avi-tagged, Biotinylated

**Cat. No.** ITGAV & ITGB3-738H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Biotinylated Human ITGAV & ITGB3 Heterodimer Protein is expressed from HEK293 cells. It contains AA Phe 31 - Val 992 (ITGAV) & Gly 27 - Asp 718 (ITGB3) (Accession # NP_002201.1 (ITGAV) & P05106-1 (ITGB3)). Subunit ITGAV is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and an Avi tag and subunit ITGB3 contains no tag but a basic tail at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	31-992;27-718 a.a.
<b>Predicted N Terminal</b>	Phe 31 (ITGAV) & Gly 27 (ITGB3)
<b>Form</b>	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 2 mM CaCl <sub>2</sub> , 150 mM NaCl, pH7.5, 10% trehalose.
<b>Bio-activity</b>	Immobilized Fibronectin at 5 ug/mL (100 uL/well) can bind Biotinylated Human ITGAV & ITGB3 Heterodimer Protein with a linear range of 0.078-1.25 ug/mL. Immobilized Vitronectin at 5 ug/mL (100 uL/well) can bind Biotinylated Human ITGAV & ITGB3 Heterodimer Protein with a linear range of 0.078-1.25 ug/mL.
<b>Molecular Mass</b>	Human ITGAV & ITGB3 Heterodimer Protein, produced by co-expression of ITGAV and ITGB3, has a calculated MW of 114.7 kDa (ITGAV) and 81.8 kDa (ITGB3). The

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	reducing protein migrates as 120-130 kDa and 145-150 (ITGAV) and 95-100 kDa (ITGB3) respectively due to glycosylation.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Characteristic</b>	Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin
<b>GENE INFORMATION</b>	
<b>Official Symbol</b>	ITGAV; ITGB3
<b>Synonyms</b>	Integrin alpha V beta 3, ITGAV & ITGB3

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